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Pesticide Fact Sheet Number 65.1: Dinocap

(U.S.) Environmental Protection Agency
Washington, DC

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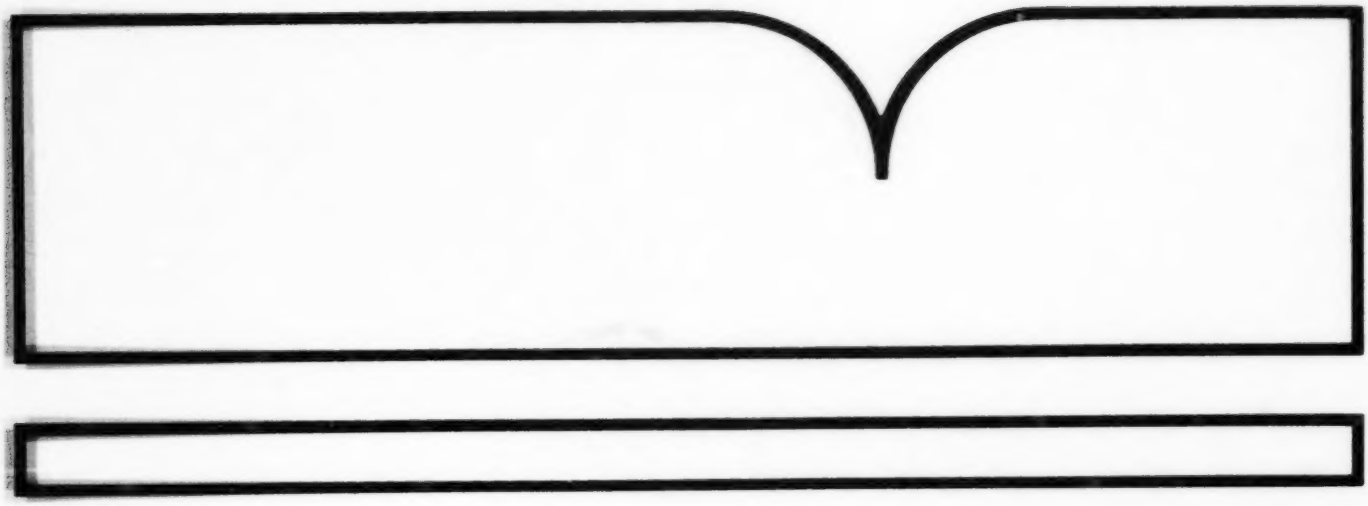

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EPA, Office of Pesticide Programs, Registration Division

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US Environmental Protection Agency
Office of Pesticide Programs
Registration Division, TS-767C
401 M Street, S.W.
Washington, D.C. 20460

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13. Type of Report & Period Covered

14.

15. Supplementary Notes

This document supercedes PB87- 111480

16. Abstract (Limit: 200 words)

This document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after one of the following actions has occurred.

1. Issuance or reissuance of a registration standard,
2. Issuance of each special review document,
3. Registration of a significantly changed use pattern,
4. Registration of a new chemical, or
5. An immediate need for information to resolve controversial issues relating to a specific chemical or use pattern.

17. Document Analysis a. Descriptors

Pesticides, regulations, Chemical Information Fact Sheet, Use Patterns, Science Findings

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement:

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19. Security Class (This Report) Unclassified

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Office of Pesticides and Toxic Substances
Office of Pesticide Programs (TS-766C)
Washington, DC 20460

EPA

Pesticide Fact Sheet

Name of Chemical: Dinocap
Reason for Issuance: Special Review
Date Issued: Oct. 1986
Fact Sheet Number: 65.1

CHEMICAL INFORMATION FACT SHEET FOR DINOCAP

1. Description of the Chemical

Chemical name:
a mixture of 2, 4-dinitro-6-octylphenol crotonate and
2, 6-dinitro-4-octylphenol crotonate

Common name: Dinocap

Trade names: Karathane®, Mildex®, Dikar®

EPA Shaughnessy number: 036001

Chemical abstracts service (CAS) number: 131-72-6

Year of initial registration: mid-1950's

Pesticide type: Fungicide

Chemical Family: Dinitrophenolic

2. Use Patterns and Formulations

Application sites: apples, pears, grapes, apricots, melons, cantaloupes, cucumbers, peaches, pumpkins, raspberries, squash, nursery stock, ornamentals, and home gardens.

Types of formulations: liquid, wettable powder, dust, aerosol

Types and methods of application: ground boom, mist blower, airblast, handheld sprayers

Application rates: rate and frequency vary according to site application

3. Science Findings:

Physical and Chemical Properties

Color	--	Dark reddish-brown
Boiling Point	--	138 to 140°C
Solubility	--	Soluble in most organic solvents, but almost insoluble in water
Appearance at room temperature	--	White, crystalline solid at 23°C

Tolerance Assessment: Tolerances were established in 40 CFR 180.341 for residues of dinocap

Toxicology Summary:

Acute toxicity - For technical dinocap, the acute oral LD_{50} in rats is 980 mg/kg.

Chronic Toxicity - Dinocap produces developmentally toxic effects in rabbits. For oral exposure, the NOEL for these effects is .5 mg/kg/day; for dermal exposure, the NOEL is 50 mg/kg/day.

4. Summary of Proposed Regulatory Position

The Agency is proposing that current registrations for the use of dinocap on agricultural and nonfood crops will be allowed to continue provided the following conditions and label modifications are met to reduce applicator exposure:

1. require ground boom, airblast and mist blower equipment to be drawn by enclosed vehicles
2. reclassify as a restricted use pesticide requiring the physical presence of the certified applicator
3. require use of a developmental toxicity warning on the label:

   "Use of this product may be hazardous to your health. This product has been determined to cause birth defects in laboratory animals."

4. require use of water-soluble packaging for wettable powder formulations

5. Contact person:

Paul Parsons
Review Manager
Special Review Branch
Registration Division
Office of Pesticide Programs
(703)-557-1632